




**LOT 2 -PROPOSED CIVIL WORKS FOR DANDORA SUBSTATION REHABILITATION & DRAINAGE**


ITEM NO.	ITEM DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	<p><b>BILL NO.1 PRELIMINARIES</b></p> <p><b>General Description of the Works;</b></p> <p>The Works in this contract comprises the execution and completion of:</p> <p>(a) Rehabilitation of Dandora 220/132kV Substation Switching yard which involves of the following:-</p> <p>(i) Removal of the existing Ballast, cleaning it and respreading it back, ground fumigation with hebicides and weedcides,application of damp proof membrane, , additional ballasting to make up 150mm thickness - 7820M<sup>2</sup></p> <p>(ii) Substation drainage - 782 LM</p> <p>(iii) Ablution Work - 15 M<sup>2</sup></p> <p>(iv) Car shade - 25M<sup>2</sup></p> <p>(v) Repair of Substation street lighting and Gate House repair works : Item</p>				
B	<p><b>ABREVIATIONS</b></p> <p><b>CM</b> shall mean cubic meter.</p> <p><b>SM</b> shall mean square meter</p> <p><b>LM</b> shall mean linear meter</p> <p><b>MM</b> shall mean milimetre</p> <p><b>KG</b> shall mean kilogramme.</p> <p><b>NO</b> shall mean number.</p> <p><b>PRS</b> shall mean pairs</p> <p><b>BS</b> shall mean the current British Standard Specification published by the British Standards Institution.</p> <p><b>DITTO</b> shall mean the whole preceding description except as qualified in the description in which it occurs.</p> <p><b>MS</b> shall mean measured separately.</p> <p><b>QTY</b> shall mean quantity.</p> <p><b>Programme for Completion of the Works</b></p> <p>(a) The works must be completed as early as possible and be carried out in accordance with the Client preferred and approved programme of works prepared by the contractor.</p>				
	<b>TOTAL CARRIED TO SUMMARY PAGE</b>				


ITEM NO	ITEM DESCRIPTION	UNIT	QTY	RATE	AMOUNT
C	<p><b>General Specifications</b></p> <p>The general specifications for reference in this contract are as follows:</p> <ol style="list-style-type: none"> <li>1. Attached specifications</li> <li>2. Kenya Bureau of Standard Specifications.</li> <li>3. Any other relevant specification material issued by the Client or his representative to amplify, compliment or clarify the primary specification material.</li> </ol> <p>The Contractor will be required to maintain a set of the specification documents on Site for ease of reference by the management team and consultants.</p>				
D	<p>All material and workmanship used in the execution of the works shall be of the best quality and specification unless otherwise described.</p> <p><b>Visitor's Book and Site Diary</b></p>				
A	<p>The Contractor shall keep on the Site a visitors' book for recording the names of all persons who visit the site for the purpose of the project. He shall also maintain on the Site a diary in which he shall record site activities on a daily basis and particularly any occurrence which bears on the progress of the Works in any way. The visitors' book and the diary shall be surrendered to the Client at the completion of the project or at any other time that he may be directed.</p> <p><b>Security of Works</b></p>	ITEM	1		
B	<p>The Contractor shall be entirely responsible for the security of all the Works, stores, materials, plant, personnel, etc, both his own and sub-contractors' and must provide all necessary watching, lighting and other precautions as necessary to ensure security against theft, loss or damage and the protection of the public.</p> <p><b>Storage of Materials</b></p>	ITEM	1		
C	<p>The Contractor shall be responsible for the safe storage and custody of materials for the Works and its security.</p>	ITEM	1		
					
<b>TOTAL CARRIED TO SUMMARY PAGE</b>					

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D	<p><b>Existing Property</b></p> <p>The Contractor shall take every precaution to avoid damage to all existing property including roads, cables, drains and other services, and he will be held responsible for and shall make good all such damage arising from the execution of this contract at his own expense to the satisfaction of the Client.</p>	ITEM	1		
E	<p><b>Water and Electricity for the Works</b></p> <p>In liason with <b>County Government</b> , Contractor shall allow for supply and connection of metered water to the substation,maintain and pay all the connection and running costs for the entire contract period</p>	ITEM	2		
F	<p><b>Safety Person</b></p> <p>Contractor should allow for a qualified/Competent person conversant with Kenya Power safety regulations for the entire contract period who will be responsible for receiving Electrical to work permits in daily basis The working hours shall be those generally given by the client in accordance with the safety regulations of substation. No work shall start in the absence of the safety person having received permit to work from the Client authorizing officer.</p>	ITEM	1		
G	<p><b>National Construction Authority</b></p> <p>Allo for any dues,monies associated with approval</p>	ITEM	1		
					
TOTAL CARRIED TO SUMMARY PAGE					

ITEM NO	ITEM DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b>SWITCHING YARD BALLASTING</b>				
A	Gather and Heap on site existing ballast (size 1") spread on the switching yard, covering an approximately area of 7820 metre squares as diterected by the Engineer.	ITEM	1		
B	Excavate oversite average, 100mm thick to remove top vegetative soils and cart away to designated Nairobi Courty damping site	SM	7820		
C	Backfill 150mm thick with imported approved gravel/murram to make up levels and to create drain falls to receive ballast (m.s)	SM	7820		
D	Prepare and apply an approved weedicide and herbicide to surfaces of removed ballsast(switching yard) as per the Manufacture's written instructions and of 5 years and beyond guatantee.	SM	7820		
E	Supply and lay 1000 gauge polythene sheet/membrane laid on the switching yard surfaces and with welted laps of 200mm wide.	SM	7820		
F	Sieve and clean <b>heaped (stocked)</b> 1" ballast on site to remove dirt, undergrowth, debris and any other waste materials and spreading unifomly in the switching yard (7820m <sup>2</sup> ) to a thickness of 75mm.	ITEM	1		
G	Supply and spread uniformly 50mm thick <b>NEW Ballast (size; 1"-1.5")</b> on to top of previously spread ballast in the switching yard.	SM	7820		
					
<b>TOTAL CARRIED TO SUMMARY PAGE</b>					

ITEM NO	ITEM DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b><u>SUBSTATION DRAINAGE WORKS</u></b>				
H	Establish drainage levels by providing the ground spot heights and the contour profiles to show drainage working levels on the areas proposed for drainage.	ITEM	1		
I	Excavate in any material for trench to a depth not exceeding 1.0m. Rate to include shaping and carting away of surplus material to Nairobi County designated dumping site.	M <sup>3</sup>	825		
J	Provide, lay and join precast concrete invert block drains (size, 610x300x150mm) laid on a 100mm thick murrum well compacted bed and jointed (1:3) cement/sand mortar.	LM	782		
K	Ditto but side slabs 610x230x75mm wide jointed in cement sand mortar (1:3)mix, laid on 50mmthick compacted backing/bed.	SM	719		
M	Plain concrete (1:3:6)mix strip, size 150mm wide and 250mm high along both side of drainage to restrain ballast falling in the drains. Make opening to allow run-off water from the switchyard to the drains	CM	60		
N	Excavate in any material in trench to a depth not exceeding 1.0m to receive 450mm culverts (ms). Rate to include shaping and carting away of surplus material to spoil.	M <sup>3</sup>	5		
O	Provide, lay and jointed 450mm diameter precast concrete culvert pipes as Engineer directs. The rate to include backfilling and compaction to drain formation level.	LM	12		
P	Provide, place and compact 150mm class 15 (1:3:6) concrete bed and surround to 450mm diameter concrete culverts(pipes)	M <sup>3</sup>	6		
					
	<b>TOTAL CARRIED TO SUMMARY PAGE</b>				

ITEM NO	ITEM DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	<p><b>SOAK PIT -3No</b></p> <p>Allow for excavation and construction of <b>3No. Soak pits</b> to receive drained run-off water from the substation switching yard by constructed open drainages (m.s)</p> <p><b>Excavate and Earthworks</b></p>	ITEM	1		
B	<p><b>CABLE TRENCHES PRECAST COVERS</b></p> <p>Rehabilitate existing cable trenches where applicable by hacking reinforced concrete to expose reinforcement and repair the cracked or worn out concrete to Engineer's satisfactory.</p> <p><b>Precast Reinforced Concrete Trench Covers</b></p> <p><b>Provide/supply and place in various trenches, precast concrete trench covers reinforced with D8 bars spaced at 100mm centres both ways with fair face finish on both side.</b></p>	ITEM	1		
C	500x460x75mm thick	NO	101		
D	900x400x75mm thick	NO	304		
E	1000x400x75mm thick	NO	76		
F	1050x400x75mm thick	NO	435		
G	820x400x75mm thick	NO	369		
H	650x400x75mm thick	NO	98		
I	720x400x75mm thick	NO	52		
J	<p><b>ABLUTION BLOCK</b></p> <p>Allow for construction non-executive pit latrine ablution block comprising of 2No. Toilets and uninal, 14m<sup>2</sup> with flat roof fixed on steel rafters (client to supply), and 30G pre-painted roofing sheets. [Draft proposal by contractor to client for approval]</p>	ITEM	1		
K	<p>Allow for construction of car park shade off approximately 25m<sup>2</sup> floor area,. Shade supporting and roof structure to be of steel posts on concrete bases, rafters and purlins (client to supply) and 30G pre-painted roofing sheets .[Draft proposal by contractor to client for approval]</p>	ITEM	1		
L	<p>Hack to remove existing 7No. cast iron manhome frame, make good to receive new polysynthetic manhole frame</p>	ITEM	1		
					
<b>TOTAL CARRIED TO SUMMARY PAGE</b>					

ITEM NO	ITEM DESCRIPTION	UNIT	QTY	RATE	AMOUT
M	Supply and fix 7No. Polysynthetic manholes frames and covers size;450x600mm	NO	7		
N	Allow for the repair of the existing streeting lights by provision of LED 100 watts flood liggths, provision of adequate cables/wires where applicable, lighting switching points and 2No. dawn to dusk timer switch with manual overriding switch for the street lights.	ITEM	1		
O	Allow Provisional sum for facilitation of 4 CIT Members for inspection on data, electronic and print Ksh.600,000	ITEM	1		
					
<b>TOTAL CARRIED TO SUMMARY PAGE</b>					

<b>SUMMARY PAGE</b>		<b>AMOUNT</b>			
TOTAL BROUGHT FORWARD FROM PAGE 1					
TOTAL BROUGHT FORWARD FROM PAGE 2					
TOTAL BROUGHT FORWARD FROM PAGE 3					
TOTAL BROUGHT FORWARD FROM PAGE 4					
TOTAL BROUGHT FORWARD FROM PAGE 5					
TOTAL BROUGHT FORWARD FROM PAGE 6					
TOTAL BROUGHT FORWARD FROM PAGE 7					
<b>SUB- TOTAL</b>					
<b>ADD 16% VAT</b>					
<b>GRAND TOTAL CARRIED TO FORM OF TENDER</b>					
AMOUNT IN WORDS -----					
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COMPANY NAME & STAMP					
SIGNATURE:					
DIRECTOR'S NAME:					
ADDRESS: -----					
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TELEPHONE NO: -----					
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WITNESSED BY					
NAME:.....DATE: .....SIGN:					
.....					
INSERT CONSTRUCTION PERIOD:.....WEEKS					

